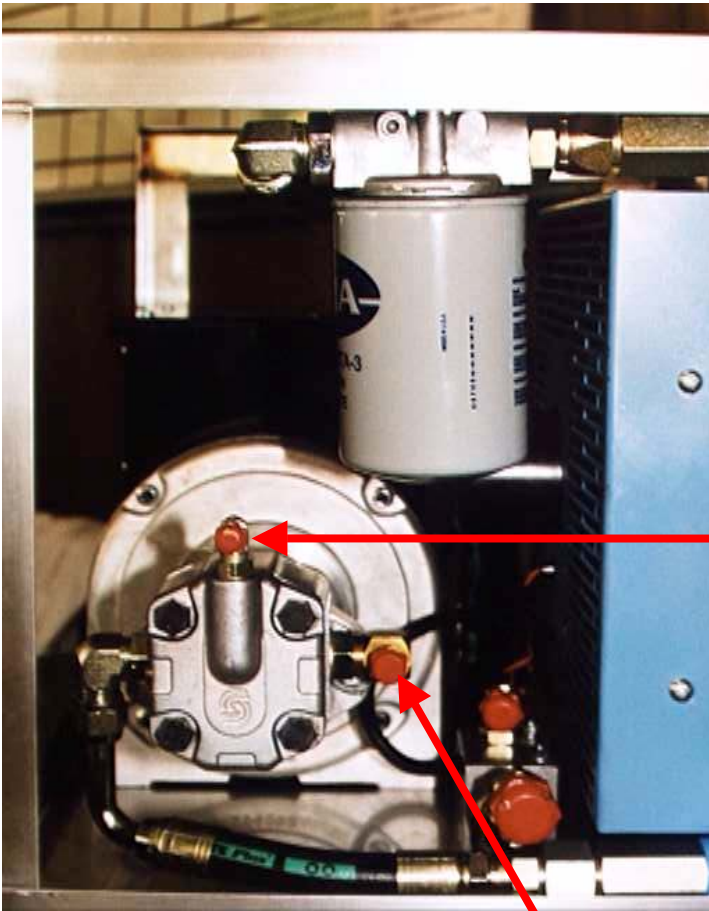


SNM2 Motor Plumbing



Rexroth 45 cc Pump

The Rexroth 45 cc pump specs a viscosity range of **80 SUS- 170 SUS** and a **max temp of 195 ° F.**

Motor case drain.

1/4" #4 hose

Motor fitting is #4 JIC male

High pressure line:

- a) #6 3/8" hose (6 KW)
- b) #8 1/2" hose (8 KW & 10 KW)

Motor fitting is:

- a) #6 JIC male (6 KW)
- b) #8 JIC male (8 KW & 10 KW)

Hydraulic Fluid

Most operators use a high grade ATF fluid such as **DEXRON III**, since this fluid is readily available. **DEXRON III** has a specific gravity of 0.866 and weighs 7.21 lbs/gal. Water has a specific gravity of 1.000 and weighs 8.34 lbs/gal. Any high-grade hydraulic oil ranging from **ISO 32 through ISO 68** will work. The better the grade and the higher the viscosity (within reason), the better the system will perform. The 45 cc pump has an optimum operating viscosity range of 80 - 170 SUS.

The motor is a gear motor and its inefficiency shows up as slippage, which translates to an increase in case drain flow, which translates to heat. The higher the viscosity, the less the slippage, the less the case drain flow, and the higher the efficiency. This translates to less heat developed, and smoother operation of the motor and alternator.